## PATENT ABSTRACTS OF JAPAN

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## (54) MOTION VECTOR DETECTOR AND MOTION VECTOR DETECTION METHOD

## (57) Abstract:

PROBLEM TO BE SOLVED: To provide the motion vector detector and its detection method in which an arithmetic amount of vector detection is reduced and deterioration in the accuracy to reduce a processing amount required for motion vector detection is compensated by increase in the absolutely minimum processing amount.

SOLUTION: The vector detector 100 is provided with a preceding image memory 101, a current image memory 102, an evaluation value calculation section 103 calculating an evaluation value H(i) for a vector based on a prediction error, a vector selection evaluation calculation section 104 using the evaluation value H(i) to calculate an evaluation value S[H(i)] required to select an object vector, a trial vector selection section 105 using the evaluation value (S) and the evaluation value S[H(i)], a trial vector selection control section 106 controlling the trial vector selection section 105 by outputting the evaluation value (S) and an object vector storage memory 107. Then a plurality of objects of trial vectors are selected by preceding processing and a useful object vector is selected based on the calculated evaluation result and when the evaluation result is excellent, the number of objects is decreased and when the evaluation result is not excellent, the number of objects is increased.

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